

CHENBRO



User's Manual

SK31101 1-to-1 SATA / SAS HDD Storage Kit

Version A2~A4

May / 26 / 2008

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Technical Support

CHENBRO works hard to offer our customers maximum performance from our chassis. But in case you have any problem with our product you can find supports from the following resources.

Web Support

Detail information of our products is in our website. You can find technical updates, installation guides, FAQs, technical specifications and more. Our web address is: www.chenbro.com.

Email Support

You can also fill out the technical support form at our [Technical Support](#) page. Your technical issue inquiries will be sent directly to our support professionals.

Phone Support

You can also contact CHENBRO HQ or branch office for immediate support; their contact information is as following:

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Revision History

Date	Modifications
May / 26 / 2008	● First Release

Safety Information

- Read the installation instructions before connecting SK31101 to the power source.
- Only trained and qualified personnel should be allowed to install, replace or service this equipment.
- Never install this product in a wet environment.
- Position system cables and power cables carefully; route system cable and the power cable and plug so that they cannot be stepped on or tripped over. Be sure that nothing rests on your system components' cables or power cable.

Conventions Used in this Manual

The following conventions are used in this manual.

	Note Icon: Provides more information on the current topic.
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	Important Icon: Provides important information on the current topic that must not be overlooked.
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Getting Start with the SK31101 Storage Kit

Thank you for purchasing SK31101! This section covers unpacking and identifying components.

Unpacking and Checking the Contents

The complete SK31101 package includes the following items:

Item Description	Quantity	Picture
SK31101 storage cage	1	
Hot-swap 3.5" Hard Disk Drive (HDD) tray	1	
SATA cable, 700mm	1	
HDD failure signal cable, 2P to 2P, 600mm	1	
Screw: #6-32 (6mm) for tray and HDD assembling (on tray)	4	
Screw: M3 (6mm) for storage cage and chassis assembling	4	

Technical Specifications

Occupancy	1 x 5.25" Drive Bays
Capacity	1 x SATA-II or SAS Hot-swap HDDs
Dimension (WxHxD)	149 x 43 x 171 (mm) 5.87 x 1.69 x 6.73 (inch)
Weight	0.5 kg

Compatible CHENBRO Chassis

- RM21600 / RM21706 / RM22300 / RM22500
RM31300 / RM31408
RM41100 / RM41416B / RM41500 / RM42200
- SR105 / SR106 / SR107 / SR108 / SR109 / SR110 / SR209 / SR214
- PC303 / PC307 / PC308 / PC310 / PC405
PC602 / PC610 / PC611 / PC613 / PC615 / PC617
PC710 / PC711 / PC717 / PC718 / PC805 / PC806

Introduction

The CHENBRO SK31101 can house one 3.5" Hot-swap HDD in one 5.25" bay converter. The ability for conversion allows existing server or PC to perform with one Hot-swap HDD and keep the flexibility. In all, SK31101 is the best solution as value added feature and performance.

Functional Specification

General

- Support up to SATA-II and SAS (3.0 Gb/s)
- Compatible with 3.5" SAS and SATA-II HDD
- Support inrush current control for HDD Hot-swapping
- LED indicate activity and failure
- Key lock for HDD security

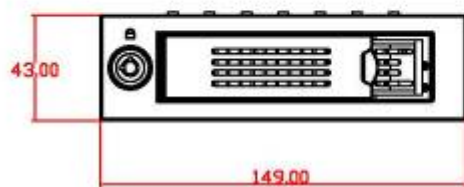
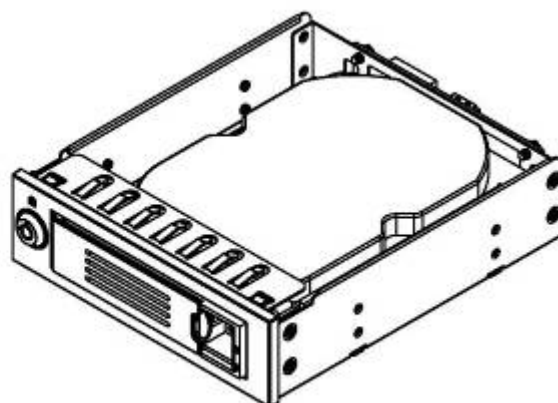
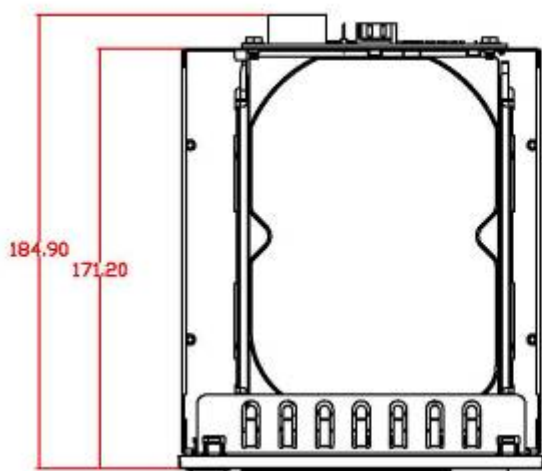
Host / Drive / Power Backplane Interface

- 1 to 1 connection for SATA / SAS HDD
- 1 x SATA / SAS Signal + Power (7+15 pin) connector at HDD side of backplane
- 1 x SATA / SAS interface (7 pin)
- 1 x DC power connectors (big 4-pin D-type)



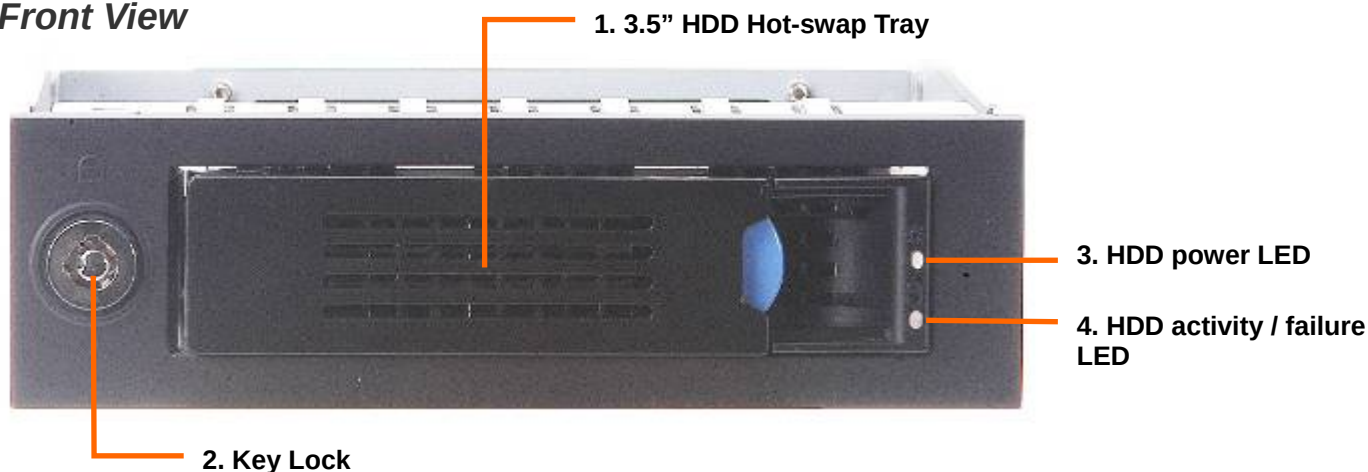
The HDD activity LDE is available for SAS or most SATA-II HDDs.
If SATA-I HDD applied, the HDD activity LED will not work.

Mechanical Dimension



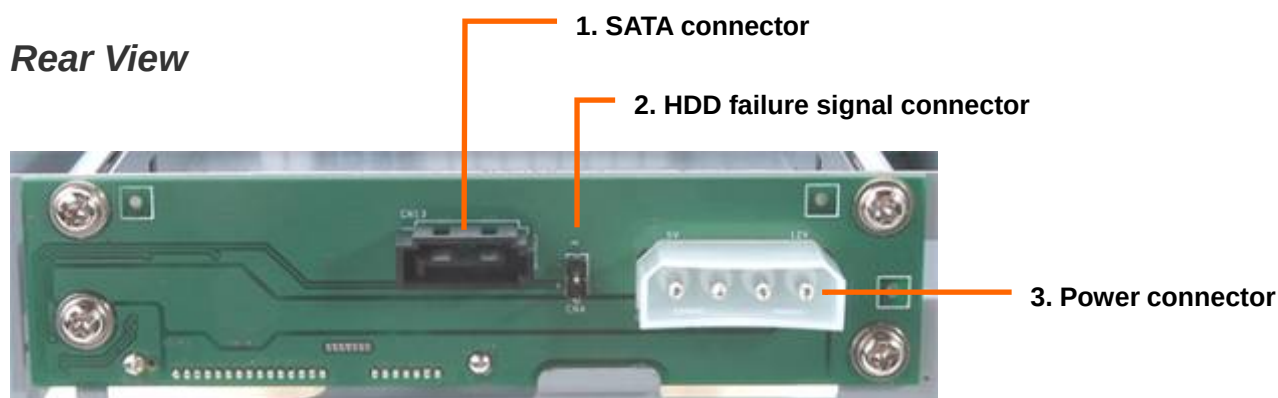
Components Description

Front View



	Device	Function
1	3.5" HDD Hot-swap Tray	Refer to Page 11
2	Key lock	Refer to Page 10
3	HDD Power LED	Blue LED On - HDD Power On
4	HDD activity / failure LED	Green LED On - HDD active Red LED On - HDD failure

Rear View



	Device	Function
1	SATA Connector	Connect to motherboard / RAID card
2	HDD failure signal connector	Refer to Page 10
3	Power Connector	Power input

Connector & Switch Definition

HDD Failure Signal Connector

This connector is for the SAS / SATA RAID card with HDD failure signal support such as LSI MegaRAID 8308ELP. Connect the 2-pin cable on SK31101 backplane and RAID card to activate the HDD failure LED.



Setting for HDD Failure Signal Cable Connection (SK31101)



HDD Failure LED Cable:
26H115311-001

Setting for HDD Failure Signal Cable Connection (RAID Card)

Connect the yellow wire of the cable to the CATHODE of the HDD failure connector on RAID card.

Refer to your RAID card's user manual for the detailed pin definition.



Key Lock

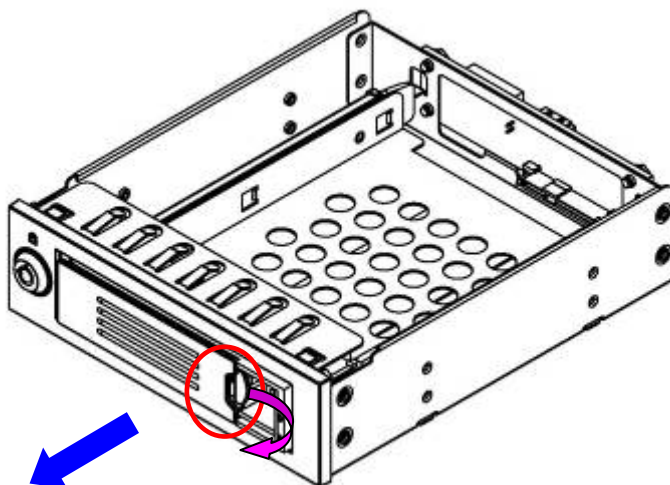


Installation Procedures

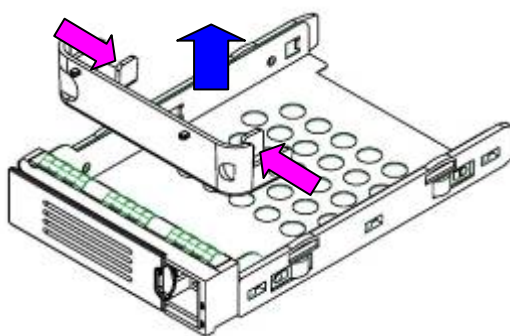
The following is the installation procedures of HDD assembly.

Hot-swap HDD Assembly

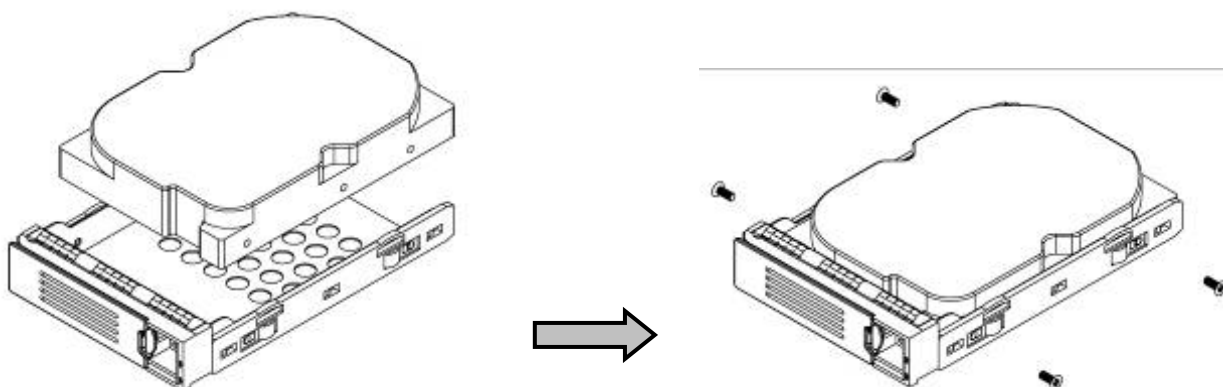
- a. Push the blue latch of HDD tray and pull it out from the cage



- b. Remove the vent cover and four screws from the vent cover



- c. Attach HDD with four screws per tray



d. Insert HDD tray to the cage

